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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/051,447	01	/18/2002	Jun Shen	12218.1600	12218.1600 1906	
20322	7590	10/16/2003		EXAM	EXAMINER	
SNELL & WILMER				DONOVAN,	DONOVAN, LINCOLN D	
ONE ARIZONA CENTER 400 EAST VAN BUREN			•	ART UNIT	PAPER NUMBER	
PHOENIX, A	Z 85004	0001		2832		

DATE MAILED: 10/16/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

•				
		Applicati n No.	Applicant(s)	
1		10/051,447	SHEN ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Lincoln Donovan	2832	
T Period for R	he MAILING DATE of this communicati n eply	appears on the cover sheet w	ith the correspondence address	
THE MAI - Extension after SIX (- If the peri - If NO peri - Failure to - Any reply	TENED STATUTORY PERIOD FOR RE LING DATE OF THIS COMMUNICATION SO OF THIS COMMUNICATION SO OF THIS COMMUNICATION SO OF THIS COMMUNICATION OF THE PROPERTY OF TH	DN. R 1.136(a). In no event, however, may a n. a reply within the statutory minimum of thi eriod will apply and will expire SIX (6) MOI tatute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
1)⊠ R	esponsive to communication(s) filed on	<u>31 July 2003</u> .		
2a)□ TI	nis action is FINAL . 2b)⊠	This action is non-final.		
	ince this application is in condition for all osed in accordance with the practice un of Claims			
4)⊠ Cla	aim(s) 1-38 is/are pending in the application	ation.		
4a)	Of the above claim(s) 3,7,8,12-28 and 3	<u>30-38</u> is/are withdrawn from c	onsideration.	
5)∏ Cla	aim(s) is/are allowed.			
6) <u></u> Cla	aim(s) <u>1,2,4-6,9-11 and 29</u> is/are rejecte	d.		
7)□ Cla	aim(s) is/are objected to.			
8) <u></u> Cla	aim(s) are subject to restriction ar	nd/or election requirement.		
Application	Papers			
9)[] The	specification is objected to by the Exan	niner.		
10) <u></u> The	drawing(s) filed on is/are: a) a	accepted or b) objected to by	the Examiner.	
	pplicant may not request that any objection t	= : :	• •	
	proposed drawing correction filed on _		disapproved by the Examiner.	
_	approved, corrected drawings are required i	• •		
ŕ	e oath or declaration is objected to by the	e Examiner.		
-	er 35 U.S.C. §§ 119 and 120			
•	knowledgment is made of a claim for for	reign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)∟_ <i>A</i> -	All b) Some * c) None of:			
1.[_			
2.[_		·· ——	
3.[* See	Copies of the certified copies of the application from the Internationa the attached detailed Office action for a	l Bureau (PCT Rule 17.2(a)).	· ·	
14)∐ Ackr	nowledgment is made of a claim for dom	nestic priority under 35 U.S.C.	§ 119(e) (to a provisional application).
] The translation of the foreign language nowledgment is made of a claim for don	• • • • • • • • • • • • • • • • • • • •		
Attachment(s)	-			
2) 🔲 Notice of	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948 on Disclosure Statement(s) (PTO-1449) Paper No	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 04-01) Application/Control Number: 10/051,447

Art Unit: 2832

DETAILED ACTION

Election/Restrictions

Claims 3, 7-8, 12-28 and 30-38 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected claimed species, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 11.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 4-6, 9-11 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bishop et al. [US 6,124,650] in view of Furlani et al. [US 6,031,652].

Bishop et al. disclose a micro magnetic latching device comprising:

- a substrate [26];
- a movable element [12], formed of a magnetically responsive material, having
 a long axis and supported by the substrate;
- a latching magnet [14] producing a first magnetic field along the long axis of the movable element; and
- a coil [10] for producing a second magnetic field to switch the movable element between two stable states.

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Bishop et al. disclose the instant claimed invention except for the specific structure of the latching magnet.

Furlani et al. discloses a bistable actuator, having an actuator element, using first and second planar latching magnets [18, 50], mounted parallel to the actuator element, movable between latched states in response to an electromagnet [100] with at least one of the magnets being mounted within the substrate.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the magnet configuration of Furlani et al., for the latching magnet of Bishop et al., for the purpose of providing a stable latching state.

The specific arrangement and type of materials used for the latching magnets would have been an obvious design consideration based on the desired sensitivity of the actuator and application thereof.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lincoln Donovan whose telephone number is 703 308-3111. The examiner can normally be reached on M-F 8:30-5:00.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1920.

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